

**That which is claimed:**

1. A method of using a femoral head resurfacing component, comprising:
  - (a) implanting said femoral head resurfacing component on the femoral neck of the patient during a first surgery to be matched with the natural acetabulum of the patient; and
  - (b) leaving said femoral head resurfacing component in said body of the patient during a second surgery in which an acetabular component to be matched with the femoral head resurfacing component is implanted in the patient.
2. The method according to claim 1, wherein the femoral head is jumbo.
3. The method according to claim 1, wherein the femoral component is metallic or ceramic.
4. The method according to claim 1, wherein the acetabular component is metallic or ceramic.
5. The method according to claim 1, including the step of removing said femoral head resurfacing component and replacing it with a primary hip stem while leaving said acetabular component in said body.
6. The method according to claim 1, wherein the acetabular component is linerless.

7. A method of performing hip arthroplasty over the life of a patient, comprising using an acetabular component that is capable of being used as both a primary and then the revision acetabular component.

8. The method of claim 7, wherein said acetabular component is also capable of being used with a femoral head resurfacing component.

9. A method of performing hip arthroplasty over the life of a patient, comprising using the same acetabular component as both the patient's primary and then revision acetabular component.

10. The method according to claim 9, wherein said method further includes using said same acetabular component during the patient's femoral head resurfacing prior to said primary hip.

11. A method of performing hip arthroplasty over the life of a patient, comprising:

(a) implanting a femoral resurfacing component in the patient during a first surgery to be matched with the patient's natural acetabulum;

(b) implanting an acetabular component to be matched with said femoral resurfacing component during a second surgery;

(c) replacing said femoral resurfacing component with a primary stem component having a femoral ball during a third surgery without replacing said

acetabular component.

12. The method according to claim 11, further comprising replacing said primary stem with a revision stem and a new femoral ball during a fourth surgery without replacing said acetabular component.

13. The method according to claim 11, further comprising providing said acetabular component with predetermined surface characteristics.

14. The method according to claim 13, wherein said step of providing said acetabular component with predetermined surface characteristics further comprises providing said acetabular component with highly toleranced sphericity and smoothness.

15. A method of using a hip stem in a patient in which an acetabular implant has been implanted on a prior occasion, including the step of implanting said hip stem without replacing said acetabular implant.